



RELEASE NOTES

NetVanta 7000 Series Products

AOS version A5.02.00

November 18, 2011

Trademarks

Any brand names and product names included in this manual are trademarks, registered trademarks, or trade names of their respective holders.

To the Holder of the Manual

The contents of this manual are current as of the date of publication. ADTRAN reserves the right to change the contents without prior notice.

In no event will ADTRAN be liable for any special, incidental, or consequential damages or for commercial losses even if ADTRAN has been advised thereof as a result of issue of this publication.

ADTRAN Technical Support Knowledge Base

For information on installing and configuring ADTRAN products, visit the ADTRAN Technical Support Knowledge Base at <http://kb.adtran.com>.



Pre-Sales Technical Support
(800) 615-1176
application.engineer@adtran.com

Corporate Office
901 Explorer Boulevard
P.O. Box 140000
Huntsville, AL 35814-4000
Phone: (256) 963-8000
www.adtran.com

Post-Sales Technical Support
(888) 423-8726
support@adtran.com

Copyright © 2011 ADTRAN, Inc.
All Rights Reserved.

Contents

<i>Introduction</i>	4
<i>Supported Platforms</i>	4
<i>Hardware Requirements and Limitations</i>	4
<i>Software Requirements and Limitations</i>	5
<i>Important Notices</i>	6
<i>System Notes</i>	7
<i>Features and Enhancements</i>	7
<i>Fixes</i>	8
<i>Errata</i>	8
<i>Upgrade Instructions</i>	10
<i>Documentation Updates</i>	10

Introduction

AOS version A5.02.00 is a feature release that also addresses customer issues that were uncovered in previous code releases.

This release is generally available code, meaning that it has been subjected to both design verification and product qualification testing. Results obtained during this testing have been evaluated and the code has been determined to be ready for general availability. Caveats discovered during testing but not addressed in this build are listed in [Errata on page 8](#).

A list of new or updated documents for this release appears in [Documentation Updates on page 10](#).

Configuration guides, white papers, data sheets, and other documentation can be found on ADTRAN's Knowledge Base, <http://kb.adtran.com>. The contents of these release notes will focus on the ADTRAN's IP telephony products.

Supported Platforms

The following platforms are supported in AOS version A5.02.00. To confirm the Boot ROM version of the ADTRAN unit, telnet or console to the unit and issue the **show version** command. In the command output, the Boot ROM version will be listed as **Boot ROM version XX.XX.XX**. If you require a Boot ROM upgrade, please contact ADTRAN Technical Support (support@adtran.com or 888-423-8726) for assistance.

- NetVanta 7100 – IP Communication Platform
- NetVanta 7060 – IP PBX

Hardware Requirements and Limitations

In an effort to maximize customer experience, whenever possible and applicable, ADTRAN will advertise the minimum hardware requirements for running the recommended software versions. While ADTRAN strives to support the newer software revisions on existing hardware, due to CPU, RAM and other HW limitations, it may not always be the case. In such instances, the customers are advised to upgrade the hardware (including phones, NV7000 series chassis and accompanying networking gear) while upgrading their software, lest they could see performance issues and erratic behavior, necessitating them to stop using certain product features. ADTRAN provides field advisory wherever possible in these cases. Resellers and customers are advised to periodically check with ADTRAN Technical support and Field staff for these advisories, especially when upgrading to newer software revisions.

NetVanta 7100 Hardware

New features included with any AOS release warrant some attention before use by the customers, specifically the choice of the hardware platform on which the new AOS will be installed.

There have been two revisions of NetVanta 7100 hardware. These are denoted by different part numbers: 1200796L1 (old) and 1200796E1 (new). Starting with AOS release A2.04, ADTRAN does not recommend using newer AOS on the 1200796L1 (old) units. These units continue to be field worthy and would continue to perform as expected for their useful life on previous to A2.04 software revisions. However, due to differences in hardware, some or all of the new features might not be supported on the older hardware (1200796L1).

The 1200796L1 is explicitly NOT recommended for use for the following features:

- Support for more than 50 users (DSP resources were increased on 1200796E1 units, allowing additional TDM to IP conversions). The user limit on the 1200796L1 remains unchanged.
- SIP trunks that require the NetVanta 7100 to perform transcoding. (This conversion is required if the SIP trunk provider does not support G.729.)
- Use of the Echo Return Loss (ERL) tool.

While there are not any further known constraints for the other features at this time, keep updated on any future advisory by ADTRAN. The recommended hardware for the AOS A2.05 and later features is 1200796E1. Feel free to discuss with your ADTRAN representative on what options are available if you have a 1200796L1 unit, and want to use a newer release.

IP Phone Models

The legacy Polycom phones (namely SPIP 430, SPIP 501, SPIP 601 and SPIP 4000) will not support all the features available in the recent AOS and phone firmware releases. Customers could experience sluggish behavior on these older generation hardware when used in conjunction with some of the newer software releases. If you experience any such behavior after an upgrade, consult with ADTRAN technical support for a solution, which will either involve upgrading the phones hardware (to the equivalent newer generation phone, such as 450, 550, 650 or 6000) or scale back the feature load on the older generation phones.

Software Requirements and Limitations

This section defines the recommended firmware/software versions necessary for the related aspects of the NetVanta Unified Communications solution.

AOS Firmware Image location(s)

AOS firmware images can be stored on FLASH/NONVOL as well as on CFLASH memory. However, it is recommended that the Primary firmware image be stored on FLASH/NONVOL and the backup firmware be stored on CFLASH. Beginning with AOS A2.01.00, there is not enough space on FLASH/NONVOL to store two versions of AOS firmware.

To copy the current image from FLASH/NONVOL to CFLASH, use the **copy flash <filename> cflash <filename>** command.

Required AOS Bootcode Version

When upgrading to AOS A4.07.00, an upgrade to Bootcode version A2.06.B1.01 is required. Contact ADTRAN Technical Support for this Bootcode version and instructions for loading it.

Required Phone Firmware

For AOS version A5.02.00, the following phone firmware is required to address issues found in the field and to support new features.

- ADTRAN IP 700 Series Phones – Version 1.3.16 with 1.3.12 bootcode
- Polycom IP 321/331 Phones – Version 3.1.3C and version 4.1.2b bootrom.
(This version is available as a supplemental download and not necessary if IP 321/331 phones are not installed.)

- Other ADTRAN approved Polycom Phones – Version 3.1.3b application and version 4.1.2b bootrom
- For legacy Polycom phones (IP 601, 501, 430, 4000) – Version 3.1.7

These files can be downloaded from <http://www.adtran.com/support>, select **Software Downloads**, and choose the appropriate phone model from the **IP 700 Series**. Contact ADTRAN Post Sales Technical Support at (888) 423-8726 or email: support@adtran.com, if you are unable to download these files.

Required NetVanta Unified Communications Server software

For AOS version A5.02.00, ADTRAN recommends NetVanta Unified Communications Server 5.01 for use with the NetVanta 7000 series as part of the NetVanta Business Communication System (BCS).

Minimum Software or Firmware Summary

Product or Phone Model	Minimum Software or Firmware	Minimum Boot ROM
NetVanta 7000 Series	A4.09 or later	A2.06.B1.01
NetVanta 6355/TA9xx	A2.06 or later	-
NetVanta UC Server (as part of BCS)	UC 5.01	Not applicable
IP706/IP712 phones	R1.3.16	1.3.12
IP321/IP331 phones	3.1.3c	4.1.2b
IP 335, IP 450, IP550/560, IP 650/670, IP 5000, 6000, 7000 phones	3.1.3b	4.1.2b
IP 430, 501, 601, 4000 phones	3.1.7	-

Important Notices

The following important notices are provided in addition to the previous *Supported Platforms*, *Hardware Requirements and Limitations*, and *Software Requirements and Limitations* sections to ensure successful deployment.

Default Firewall Configuration Changes

Changes were made to the default firewall configuration to increase security of voice platforms when connected to the Internet. These changes can impact remote phones and SIP trunking applications, but do not impact local phones on the NetVanta 7000 series.

- In AOS versions A2.01.00 through A2.03.00.SC, the default Public policy class allowed SIP traffic (destined for UDP port 5060) inbound. For AOS A2.04.00.SC and above, this traffic is no longer allowed by the factory default configuration. Instead, the installer is required to selectively customize the Public policy class to allow SIP traffic from remote sites and SIP Trunking providers.
- Units that were shipped with AOS versions through A2.03.00.SC contain a default configuration that allows this SIP traffic. These configurations should be modified before deployment. Guidelines for this configuration are given in the **NetVanta 7000 Series Security Guide** available from ADTRAN's Knowledge Base, <http://kb.adtran.com> (article number 3399).

Notice of Defined Voicemail File Limit

Beginning with AOS A2.04.00.SC, the NetVanta 7000 Series products can maintain a maximum of 3000 voicemails per system. The implementation of voicemail message expiration allows the system to remain within the defined limit. Upgrading the CFLASH card to a larger card will not result in more voicemail storage and is not supported. Should you need to replace a failed CFLASH card, contact ADTRAN Technical Support for assistance.

System Notes

This section explains changes pertaining to the system installation for AOS version A5.02.00.

- IP 700 Series phones will not play the ringback tone when they receive a 180 Ringing response after a 183 Session Progress response.
- Adding a T1/E1 link to an existing Multilink PPP bundle using the GUI causes the PPP link to bounce when applied. The PPP link will go down and immediately recover; however, some packets could be lost. To work around this issue, a T1/E1 can be added using the CLI, and the link will stay up while the addition is applied.
- FindMe-FollowMe treats all calls from the auto attendant as internal calls.
- SNOM M3 phones do not support attended transfer at this time. This and other caveats will be documented in a future configuration guide for using the SNOM phones with the NetVanta 7000 Series.

Features and Enhancements

This section highlights the major features, commands, and behavioral changes for AOS version A5.02.00.

- Added support for Registration Rate Adaption through SIP proxy.
- Added international impedance and tone support for UAE and Belgium.
- Added support for NetVanta E1/FE1 and E1/FE1 + G.703 NIMs on the NetVanta 7100 for delivering a bonded MLPPP service.
- Enhanced the NetVanta ucCompanion client. This consolidated client provides all previously existing ucCompanion functionality along with a new client desktop presence that provides information for all NetVanta UC Server users configured on the Business Communications System. This feature can be used with either a single NetVanta 7000 Series unit and a server computer with the NetVanta UC Server software installed, or with multiple NetVanta 7000 Series units registering back to a single UC server computer, allowing presence information for users on different NetVanta 7100s to be monitored from any user's desktop. The new functionality includes the following benefits:
 - Click-to-dial from the desktop, IM (texting), status notes, and configuration settings Search and groups management
 - Colored icons indicate status
 - Status options: Available, Not Available, Busy, Away, Do Not Disturb, Out of Office
 - General Business Instant Messaging (This is not a replacement for corporate or social networking IMs.)
- Added software support for the second generation Dual T1 NIM on the NetVanta 7100.
- Added support for the SIP UPDATE method.

- Added support to configure SIP re-INVITE's as the preferred signaling in certain call scenarios if not required.
- Added support for the Advatel IP Console attendant console solution. This solution provides an operator with the ability to use a Windows-based PC as the operator console station for answering calls, transferring calls using drag/drop, and monitoring users, park zones, and the BLF status of other users. A maximum of 32 BLF entries can be monitored. This solution does not require the NetVanta BCS (NetVanta UC Server software), rather it functions like a softphone registered to a standard NetVanta 7000 series unit. This solution is only approved for use with a NetVanta 7000 Series unit (and not with a BCS).
- Added support for RFC 4028 SIP Session Timers.

Fixes

This section highlights major bug fixes in AOS version A5.02.00.

- FindMe-FollowMe was not properly handling the preconnect from a SIP 180 with SDP which caused a disconnect.
- Insufficient memory caused the AOS unit to reboot.
- On occasion, an analog trunk could not connect to a new call on another analog trunk using the digit actions in auto attendant.
- Call coverage to an external number (incoming FXO, outgoing FXO) did not always succeed.
- In the NetVanta 7100, when placing a call in the ETSI PRI to SIP direction, the call failed to connect and the B channel(s) became stuck in an active state. When placing a call in the SIP to ETSP PRI direction, calls functioned normally.
- The Auto Attendant timeout prompt could not be set when using the Transfer to a Menu action.
- If the administrator had an encrypted SPRE password on a voice user, that user's SIP authentication password would also display as encrypted even if it was not.
- The **Name or Description** field of FindMe-FollowMe Contact Groups would not allow editing.
- Executing a **no sip-keep-alive** on a voice line would reset the value to the default rather than disabling it. The default value for this command is **sip-keep-alive info 60**.
- PRI interface channel status displayed incorrectly in the CLI when the NetVanta 7100 was configured for a T1 system country.
- In some instances, incoming calls to a SIP trunk would be disconnected when attempting a blind transfer from one SIP phone to another.

Errata

The following is a list of errata that still exist in AOS version A5.02.00.

- On the personal phone manager's FindMe-FollowMe menu, modified ring external durations are not applied correctly. The value is accepted, but reverts to the previously configured value after the user applies the changes. As a work around, the administrator must change the ring external duration in the admin GUI or the CLI.
- When the ISDN layer one bounces, it can cause a packet leak.

- Calls with Caller IDs that contain special characters can be disconnected when placed on hold by an Advatel IP Console.
- The NetVanta 7100 adds an extra set of quotation marks to the FROM field for certain call flows.
- When a voice user's standard greeting stored on the CompactFlash becomes corrupted, the voicemail system does not failover to the voice user's default greeting.
- The Update Directories GUI action does not update all of the selected Polycom IP phones; only the first one checked.
- The **group-ring-call-waiting** command is ignored by station-to-station calls to a ring group.
- Loss of connectivity between a NetVanta 150 Access Point and a NetVanta access controller can cause the access controller to reboot.
- If the IP Interfaces menu is used to delete an MLPPP interface, the interface is deleted from the configuration, but is not fully be torn down in the box. This can cause problems when creating new MLPPP interfaces. A reboot will fix the problem.
- The GUI option to **Upload Firmware** from **Default Firmware** selection tab under **IP Phone Globals > Boot Settings** fails with an error.
- New phone configurations created using the manual input method for existing users with nondefault SIP authentication passwords will not be created with the correct password.
- The clock source for a WAN T1 cannot be configured from the GUI.
- If a 500 Server Internal Error with a Retry-After header is received in response to a request, the call is dropped instead of retrying the request after the time specified in the Retry-After header.
- A **Rebuild All** action on **NetVanta IP Phone Configs** menu of the GUI incorrectly reports an error of Rebuild Operation Failed.
- A SIP 200 OK response to SIP INVITE with the sendonly media attribute does not contain SDP attribute for recvonly or inactive.
- The Slot LED for an FXO/FXS VIM always remains red.
- In the VQM RTP Monitoring menu, the Source IPs and Interfaces menus have invisible data points that appear and display data when the cursor hovers over them. The invisible data point information duplicates a visible data point and can usually be found hidden above the visible data point.
- In the VQM RTP Monitoring menu, the refresh button refreshes the displayed graphic, but it also duplicates information in the lower part of the menu. Also, when the cursor hovers over a data point, it displays multiple instances of the same data. The problem can be cleared up by clicking RTP Monitoring in the side navigation bar, but any subsequent refresh data clicks results in the same condition.
- Occasionally, fax/modem tone detection fails on analog trunks, preventing modem passthrough from working.
- T.38 FAX call tests fail after T1 PRI loss and system timing shifts. A reboot is required to clear the condition.
- When configuring call coverage, setting the Ring Extension to Never results in a three-second delay delivering voice traffic to the ADTRAN phone.
- Fax calls will not process between the NetVanta UC Server and the NetVanta 7100 after the 7100 sends T.38 reINVITE if the call is received through a SIP to TDM gateway in front of the NetVanta 7100.

- If a call to a ring group comes in a PRI interface with redirecting number enabled and it is transferred back out of the same PRI, the ISDN redirecting number will contain the extension of the ring group member that answered the call instead of the number that was originally called. This will likely cause the call to be rejected.
- An ISDN redirecting number does not function properly with DID configurations. Using DIDs causes the redirecting number to contain the extension of the voice user that was called instead of the number that was originally dialed. Aliases rather than DIDs must be used for the ISDN redirecting number to function properly.
- The NetVanta 7100 does not send SDP in the PRACK request when FindMe-FollowMe calls an external number and the softswitch sends a 183 Session Progress response with SDP. A workaround is to use the no grammar supported 100rel command on the SIP trunk.

Upgrade Instructions

Upgrading ADTRAN products to the latest version of AOS firmware is explained in detail in the configuration guide [Upgrading Firmware in AOS](#) (ADTRAN's Knowledge Base article 1630), available at <http://kb.adtran.com>. Firmware upgrades are available on the [Support/Software Downloads](#) section of ADTRAN's website at <http://www.adtran.com>.

Documentation Updates

The following documents were updated or newly released for AOS version A5.02.00 specifically for the IP Telephony products.

- There were no updated or newly released documents for AOS version A5.02.00.